## AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) A process for purifying a phosphodiesterase 1 (PDE-1) from a cell including heating an extract of a cell formed from a solution including at least one divalent cation, to increase the specific activity of PDE-1 in the extract, wherein the concentration of the divalent cation is about [[10 to]] 50 mM.
- 2. (Original) A process according to claim 1 wherein the divalent cation is magnesium or calcium.
  - 3-6. (Canceled)
- 7. (Original) A process according to claim 1 wherein the extract is heated to a temperature that permits depletion of phosphomonoesterase activity from the extract.
- 8. (Original) A process according to claim 7 wherein the extract is heated to less than 80°C.
- 9. (Original) A process according to claim 8 wherein the extract is heated to between about 45 and 75°C.
- 10. (Original) A process according to claim 9 wherein the extract is heated to about 60°C.
- 11. (Currently amended) A process for purifying PDE-1 from a barley cell including: releasing PDE-1 from the cell into a solution including about [[10 to]] 50 mM calcium and about [[10 to]] 50 mM magnesium to form an extract; and

heating the extract to between about 45 to 70°C to increase the specific activity of PDE-1 in the extract.

12. (Currently amended) A process according to claim 11 wherein the extract is maintained in conditions for promoting solubilisation solubilization of the phosphodiesterase in the extract prior to heating the extract.

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- 13. (Original) A process according to claim 12 wherein the extract is maintained at less than 10°C.
- 14. (Original) A process according to claim 13 wherein the extract is maintained at between 0 to about 4°C.
- 15. (Currently amended) A process according to claim 11 comprising the further step of:

utilising utilizing chromatography to purify PDE-1 from the heated extract.

16. (Currently amended) A process according to claim 15 wherein anion exchange chromatography is <u>utilized</u> to purify PDE-1 from the heated extract.

17-20. (Canceled)